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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/077,383	02/15/2002	Paul V. Haydock	018048-001710US	018048-001710US 3693	
20350	7590 01/10/2005		EXAMINER		
TOWNSEND AND TOWNSEND AND CREW, LLP TWO EMBARCADERO CENTER			TUNG, JOYCE		
EIGHTH FLO		ART UNIT	PAPER NUMBER		
SAN FRANCI	ISCO, CA 94111-3834		1637	1637	
			DATE MAIL ED: 01/10/2004	•	

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary		Application	on No.	Applicant(s)		
		10/077,38	33	HAYDOCK ET AL.		
		Examiner	•	Art Unit		
		Joyce Tu	_	1637		
Period fo	The MAILING DATE of this communication or Reply	n appears on the	e cover sheet with the d	correspondence address		
THE - Exte after - If the - If NC - Failu Any	ORTENED STATUTORY PERIOD FOR R MAILING DATE OF THIS COMMUNICATI nsions of time may be available under the provisions of 37 C SIX (6) MONTHS from the mailing date of this communication period for reply specified above is less than thirty (30) days, of period for reply is specified above, the maximum statutory put the to reply within the set or extended period for reply will, by the to reply within the set or extended period for reply will, by the to reply within the set or extended period for reply will, by the torein the main three months after the ed patent term adjustment. See 37 CFR 1.704(b).	ON. FR 1.136(a). In no even on. The areply within the status or and will apply and wistatute, cause the app	ent, however, may a reply be tir utory minimum of thirty (30) day Il expire SIX (6) MONTHS from lication to become ABANDONE	nely filed is will be considered timely. the mailing date of this communication. ID (35 U.S.C. § 133).		
Status						
1)	Responsive to communication(s) filed on .	21 October 200	4.			
		· · · · · · · · · · · · · · · · · · ·				
3)	· <u> </u>					
	closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.					
Dispositi	ion of Claims			1		
4) Claim(s) 1-44 is/are pending in the application. 4a) Of the above claim(s) 1-6 and 37-44 is/are withdrawn from consideration. 5) Claim(s) is/are allowed. 6) Claim(s) 7-36 is/are rejected. 7) Claim(s) 20 is/are objected to. 8) Claim(s) are subject to restriction and/or election requirement.						
Applicati	on Papers					
	The specification is objected to by the Exa	miner.				
	The drawing(s) filed on is/are: a)		objected to by the	Examiner.		
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).						
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.						
Priority u	ınder 35 U.S.C. § 119					
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 						
Attachmen	t(s)					
1) Notice of References Cited (PTO-892) 4) Interview Summary (PTO-413)						
3) X Inform	e of Draftsperson's Patent Drawing Review (PTO-948 nation Disclosure Statement(s) (PTO-1449 or PTO/SE r No(s)/Mail Date <u>7/8 and 12/10/2002</u> .		Paper No(s)/Mail Da	ite atent Application (PTO-152)		

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DETAILED ACTION

The applicant's response filed October 21, 2004 to the Office action has been entered. Claims 1-44 are pending.

Election/Restrictions

1. Applicant's election with traverse of Group II claims 7-36 in the reply filed on October 21 2004 is acknowledged. The traversal is on the ground(s) that the two groups set forth by the Examiner all stem from a common concept and theory and are related and so there is no burden on Examiner. This is not found persuasive because as set forth in the Office action mailed September 17, 2004, Group I, claims 1-6 and 37-44 are drawn to an oligonucleotide primer which can be used in a nucleic acid array or amplifying a single nucleic acid target, whereas Group II, claims 7-36 are drawn to a method of amplifying a target nucleic acid via transcribing multiple amplification duplexes. Thus the examination of two groups together causes a burden on the examiner.

The requirement is still deemed proper and is therefore made FINAL.

2. Claims 1-6 and 37-44 are withdrawn from further consideration pursuant to 37 CFR 1.142(b), as being drawn to a nonelected Group I, there being no allowable generic or linking claim. Applicant timely traversed the restriction (election) requirement in the reply filed on October 21, 2004.

Claim Objections

3. Claim 20 is objected to because of the following informalities: the phrase "to amplified" might be typographic error. Appropriate correction is required.

Claim Rejections - 35 USC § 112

- 4. The following is a quotation of the second paragraph of 35 U.S.C. 112:
 - The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.
- 5. Claims 7-36 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.
 - a. Claims 7-36 are vague and indefinite because of the phrase "extending said second primer-antisense transcription product complex" in claim 7. It appears that in step v.) Of claim 7 said first primer is hybridized to said an antisense transcription product to form a first primer-antisense transcription product complex. Thus, there is no antecedent basis for "extending said second primer-antisense transcription product complex". Clarification is required.

Allowable Subject Matter

6. Claims 7-36 would be allowable if rewritten or amended to overcome the rejection(s) under 35 U.S.C. 112, 2nd paragraph, set forth in this Office action.

The following is a statement of reasons for the indication of allowable subject matter:

Concerning claims 7-36, no prior art has been found teaching or suggesting the method of amplifying a target nucleic acid in an aqueous solution via transcribing an intermediate duplex with the reverse transcriptase that lacks RNAseH activity in that the first strand of the intermediate duplexes comprises in the following order from 5' to 3': a phage-encoded RNA polymerase recognition sequence, a first spacer sequence comprising a sequence of from 12 to 20 nucleotides that consists of one nucleotide type or two different nucleotide types and a first

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target complementary sequence which can bind to a segment of the target nucleic acid and the second strand of the intermediate duplexes comprises in the following order from 5' to 3': a second target complementary sequence which can bind to a segment of the target nucleic acid, a second spacer sequence comprising a sequence of from 12 to 20 nucleotides that consists of one nucleotide type or two different nucleotide types and a phage-encoded RNA polymerase recognition sequence.

The closest prior art is the reference of Haydock et al. (WO 00/73486, issued December 7, 2000). Haydock et al. disclose a method for amplifying any nucleic acid sequence involving transcribing an intermediate duplex, which has the similar steps with the claimed invention. However, the intermediate duplex used in the instant invention does not have the same structure as the structure of the intermediate duplexes used in the method of Haydock et al..

Summary

- 7. No claims are allowable.
- 8. Any inquiries concerning this communication or earlier communications from the examiner should be directed to Joyce Tung whose telephone number is (703) 305-7112. The examiner can normally be reached on Monday-Friday from 8:00 AM-4:30 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Gary Benzion can be reached at (703) 308-1119 on Monday-Friday from 10:00 AM-6:00 PM.

Any inquiries of a general nature or relating to the status of this application should be directed to the Chemical/Matrix receptionist whose telephone number is (703) 308-0196.

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9. Papers related to this application may be submitted to Group 1600 by facsimile transmission. Papers should be faxed to Art Unit 1637 via the PTO Fax Center located in Crystal Mall 1 using (703) 305-3014 or 308-4242. The faxing of such papers must conform with the notice published in the Official Gazette, 1096 OG 30 (November 15, 1989).

Joyce Tung January 6, 2005

> KENNETH R. HORLICK, PH.D. PRIMARY EXAMINER

> > 1/6/05